# Plan Fair Tests

Grade 4 Science Worksheet

Name _____ Date _____

Read the investigation. Write the answer on the line.

READ THIS FIRST

## A warm water test

Priya poured the same amount of hot water into three cups made of different materials. She put a lid on each cup. The water started at 60 degrees. She measured the water temperature 10 minutes later.

Foam cup: 54 degrees
Plastic cup: 49 degrees
Metal cup: 41 degrees

1. What was changed from one trial to the next?

_____

2. Which cup kept the water warmest?

_____

3. What was the result for the plastic cup? Write the number.

_____

4. Name one thing that stayed the same in every trial.

_____

5. How many more degrees was the biggest result than the smallest? Write the number.

_____

6. Which cup gave the second-biggest result?

_____

7. Which cup kept the water coolest?

_____

8. Priya leaves the lid off the metal cup but puts lids on the other cups. Is the test still fair? Write yes or no.

_____

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Answer Key - Grade 4 Science Worksheet

Read the investigation. Write the answer on the line.

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## A warm water test

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Foam cup: 54 degrees
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Metal cup: 41 degrees

1. What was changed from one trial to the next?

**material**

2. Which cup kept the water warmest?

**foam**

3. What was the result for the plastic cup? Write the number.

**49**

4. Name one thing that stayed the same in every trial.

**amount of water**

5. How many more degrees was the biggest result than the smallest? Write the number.

**13**

6. Which cup gave the second-biggest result?

**plastic**

7. Which cup kept the water coolest?

**metal**

8. Priya leaves the lid off the metal cup but puts lids on the other cups. Is the test still fair? Write yes or no.

**no**